

NSW 2024 SYLLABUS
**K-6 Science &
Technology**
SCOPE AND SEQUENCE



inquisitive

New Units for the NSW 2024 Science and Technology Syllabus Have Been Published

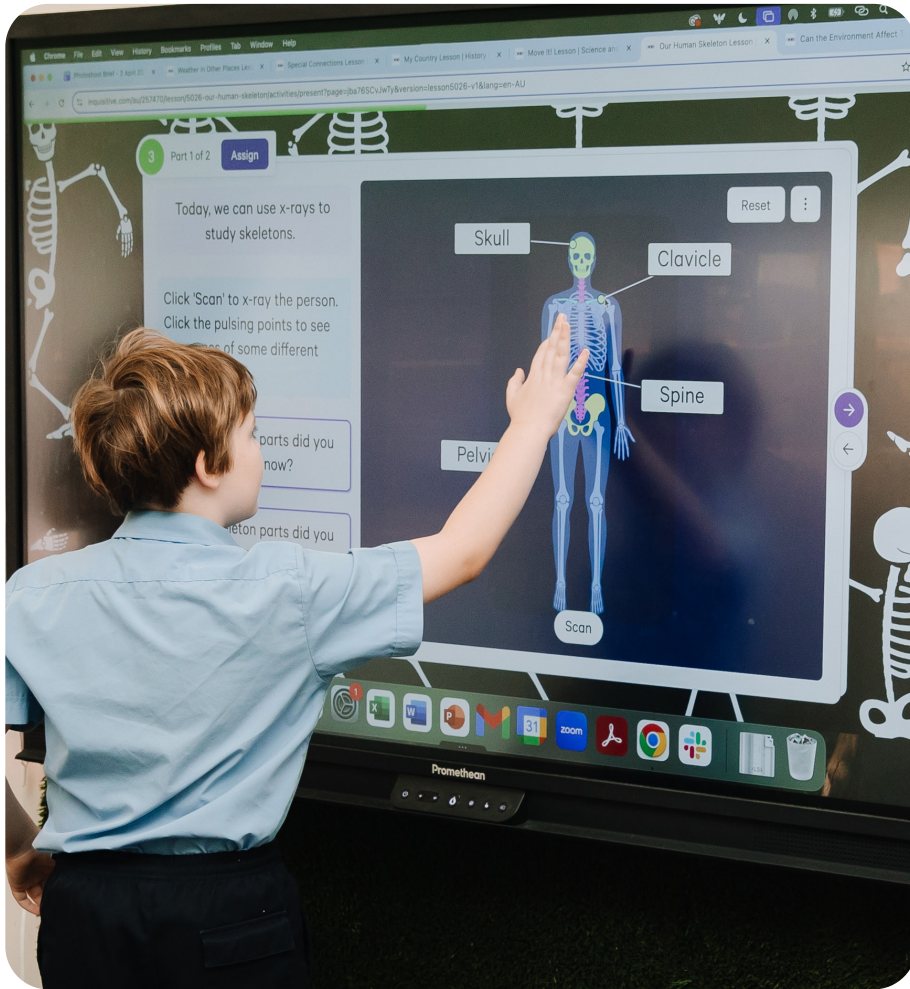
Teaching Notes and Background Science

Hands-on Investigations

Real-Time Student Responses

Digital Slides With Embedded Videos, Science Interactives and eBooks

Capture Real-Time Student Responses



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As a specialist Science teacher, I love to use Inquisitive. The content is presented in an interesting format that makes learning the content fun for the kids and allows them to communicate what they have learnt in a variety of ways.

Lisa, Teacher

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We absolutely LOVE Inquisitive and look forward to seeing the new units. In terms of feedback for you, we ADORE the fact that the children can access the slides and write their answers online. It makes it easy to monitor on task behaviour, and gives us an instantly accessible digital record for assessment.

Sharyn, Assistant Principal



TERM 1	TERM 2	TERM 3	TERM 4
Observations and questions spark curiosity			
Living Things and How They Survive LESSONS 1-4 AVAILABLE NOW KEY INQUIRY QUESTION What is a living thing and what do they need to survive? NSW 2024 STE-SCI-01, STE-PQU-01	Observable Properties of Materials LESSONS 1-5 AVAILABLE NOW KEY INQUIRY QUESTION What are the observable properties of materials? NSW 2024 STE-SCI-01, STE-PQU-01	Characteristics of Plants and Animals LESSONS 1-4 AVAILABLE NOW KEY INQUIRY QUESTION How do the characteristics of living things help them survive? NSW 2024 STE-SCI-01, STE-PQU-01	Objects and Living Things Move LESSONS 1-5 AVAILABLE NOW KEY INQUIRY QUESTION How do objects and living things move in different ways? NSW 2024 STE-SCI-01, STE-PQU-01
Observations and questions initiate design and digital solutions			
Using Digital Devices LESSONS 1-3 AVAILABLE NOW KEY INQUIRY QUESTION How do digital devices and apps help us capture, share and understand information in our daily lives? NSW 2024 STE-DDT-01, STE-PQU-01	Pack It Perfect LESSONS 1-4 AVAILABLE NOW KEY INQUIRY QUESTION Why is food packaging important? NSW 2024 STE-DDT-01, STE-PQU-01	COMING SOON Safe Havens LESSONS 1-4 KEY INQUIRY QUESTION How can we design a shelter to protect animals? NSW 2024 STE-DDT-01, STE-PQU-01	



TERM 1	TERM 2	TERM 3	TERM 4
Investigations of changes provide knowledge and understanding			
Collecting Scientific Data About Habitats LESSONS 1-4 KEY INQUIRY QUESTION How does data help us understand how living things change? NSW 2024 ST1-SCI-01, ST1-DAT-01	Body Sense Organs LESSONS 1-5 KEY INQUIRY QUESTION Which parts of our body tell us about the environment? NSW 2024 ST1-SCI-01, ST1-PQU-01, ST1-DAT-01	Light in Action LESSONS 1-4 KEY INQUIRY QUESTION How does light behave with different materials? NSW 2024 ST1-SCI-01, ST1-PQU-01	Planet Earth LESSONS 1-4 KEY INQUIRY QUESTION In what ways do weather and seasons affect the world around us? NSW 2024 ST1-SCI-01, ST1-PQU-01, ST1-DAT-01
Design and digital solutions are created through knowledge and understanding			
Food, Clothing and Shelter LESSONS 1-5 KEY INQUIRY QUESTION In what ways do living things provide us with food, clothing and shelter? NSW 2024 ST1-DDT-01, ST1-PQU-01	Digital Systems in Everyday Life LESSONS 1-3 KEY INQUIRY QUESTION How do we use digital systems in everyday life and for learning? NSW 2024 ST1-PQU-01	COMING SOON Using Light LESSONS 1-3 KEY INQUIRY QUESTION How can we use light? NSW 2024 ST1-DDT-01, ST1-PQU-01	



TERM 1	TERM 2	TERM 3	TERM 4
Investigations of changes provide knowledge and understanding			
Power of Forces LESSONS 1-5 KEY INQUIRY QUESTION How can a force change how an object moves? NSW 2024 ST1-SCI-01, ST1-PQU-01, ST1-DAT-01	Changes Over Time LESSONS 1-4 KEY INQUIRY QUESTION What is a life cycle of a living thing? NSW 2024 ST1-SCI-01, ST1-DAT-01	Sound Journey LESSONS 1-4 KEY INQUIRY QUESTION How does sound behave with different materials? NSW 2024 ST1-SCI-01, ST1-PQU-01, ST1-DAT-01	Exploring the Sky LESSONS 1-6 KEY INQUIRY QUESTION What changing patterns can we see when we look up at the sky? NSW 2024 ST1-SCI-01, ST1-PQU-01, ST1-DAT-01
Design and digital solutions are created through knowledge and understanding			
COMING SOON Move Me LESSONS 1-4 KEY INQUIRY QUESTION How can materials be changed to create movement? NSW 2024 ST1-DDT-01, ST1-PQU-01	Sequential Steps LESSONS 1-2 KEY INQUIRY QUESTION How can we control a device? NSW 2024 ST1-PQU-01	Make Some Noise LESSONS 1-4 KEY INQUIRY QUESTION How can we make a musical instrument? NSW 2024 ST1-DDT-01, ST1-PQU-01	Digital Systems and Safety LESSONS 1-3 KEY INQUIRY QUESTION How can we use digital systems safely to create and share while protecting our personal information online? NSW 2024 ST1-PQU-01



TERM 1	TERM 2	TERM 3	TERM 4
Physical and living systems depend on energy			
Body Systems and Movement LESSONS 1-4 KEY INQUIRY QUESTION How do the bodies of living things help them move? NSW 2024 ST2-SCI-01, ST2-PQU-01	States and Properties of Matter LESSONS 1-3 KEY INQUIRY QUESTION What are the states of matter and their properties? NSW 2024 ST2-SCI-01, ST2-PQU-01, ST2-DAT-01	Earth's Systems and Environments LESSONS 1-5 KEY INQUIRY QUESTION In what ways do the interactions between Earth's systems impact living things & their environments? NSW 2024 ST2-SCI-01, ST2-PQU-01, ST2-DAT-01	Transferring Heat Energy LESSONS 1-4 KEY INQUIRY QUESTION Where does heat come from and where does it go? NSW 2024 ST2-SCI-01, ST2-PQU-01, ST2-DAT-01
Design processes and digital systems are used to create solutions			
COMING SOON Boat Builders LESSONS 1-5 KEY INQUIRY QUESTION How can we combine materials and use forces to build a boat? NSW 2024 ST2-DDT-01, ST2-DDT-02	Digital Systems and Data Representation LESSONS 2, 3 & 5 KEY INQUIRY QUESTION How do digital systems and data help us connect, share and represent information in different ways? NSW 2024 ST2-DDT-02	Learning from the Land LESSONS 1-5 KEY INQUIRY QUESTION What is sustainable farming? NSW 2024 ST2-DDT-01, ST2-DDT-02	Programming Basics LESSONS 1-4 KEY INQUIRY QUESTION How can I write my own computer programs? NSW 2024 ST2-DDT-02



TERM 1	TERM 2	TERM 3	TERM 4
Physical and living systems depend on energy			
Forces Shape Earth's Surface LESSONS 1-5 KEY INQUIRY QUESTION How do natural forces shape the Earth's surface? NSW 2024 ST2-SCI-01, ST2-PQU-01	Energy Flow and Relationships in Ecosystems LESSONS 1-5 KEY INQUIRY QUESTION How do living things depend on energy and each other for survival? NSW 2024 ST2-SCI-01, ST2-DAT-01	Heat Energy Changes Matter LESSONS 1-3 KEY INQUIRY QUESTION How does heat energy change matter? NSW 2024 ST2-SCI-01, ST2-PQU-01, ST2-DAT-01	Our Solar System LESSONS 1-5 KEY INQUIRY QUESTION How do different cultures interpret the Sun and the solar system? NSW 2024 ST2-SCI-01, ST2-DAT-01
Design processes and digital systems are used to create solutions			
All Shook Up LESSONS 1-4 KEY INQUIRY QUESTION How can we design buildings that withstand earthquakes? NSW 2024 ST2-DDT-01, ST2-DDT-02	Digital Navigators LESSONS 1-4 KEY INQUIRY QUESTION How can we use digital tools safely and responsibly? NSW 2024 ST2-DDT-02	COMING SOON Heat and Eat LESSONS 1-5 KEY INQUIRY QUESTION In what ways does heat affect food? NSW 2024 ST2-DDT-01, ST2-DDT-02	Logics and Loops LESSONS 1-4 KEY INQUIRY QUESTION How can algorithms improve problem solving? NSW 2024 ST2-DDT-02



TERM 1	TERM 2	TERM 3	TERM 4
Knowledge of our world and beyond inspires sustainable solutions			
Earth's Usable Matter LESSONS 1-5 KEY INQUIRY QUESTION What sustainable materials and practices can we use to reduce waste and protect our environment? NSW 2024 ST3-SCI-01, ST3-PQU-01, ST3-DAT-01, ST3-CWT-01, ST3-DDT-01	Adaptations LESSONS 1-4 KEY INQUIRY QUESTION How do the unique structures and behaviours of living things help them thrive in their environment? NSW 2024 ST3-SCI-01, ST3-PQU-01, ST3-DAT-01, ST3-CWT-01	Electrical Energy LESSONS 1-3 KEY INQUIRY QUESTION How do we use different types of energy in our lives and why does the type of energy source we use matter? NSW 2024 ST3-SCI-01, ST3-PQU-01, ST3-DAT-01, ST3-CWT-01	Digestive, Respiratory and Circulatory Systems LESSONS 1-3 KEY INQUIRY QUESTION In what ways do the digestive, respiratory and circulatory systems work together to aid our survival? NSW 2024 ST3-SCI-01, ST3-PQU-01, ST3-DAT-01, ST3-CWT-01
Design and digital technologies engineer sustainable solutions			
COMING SOON Waste Wise LESSONS 1-4 KEY INQUIRY QUESTION What are some strategies for managing waste more sustainably? NSW 2024 ST3-DDT-01, ST3-DDT-02, ST3-CWT-01	Digital Tools and Online Protocols LESSONS 1-3 KEY INQUIRY QUESTION How can we responsibly use digital tools to create, share and protect information online? NSW 2024 ST3-DDT-02	Solar Smart LESSONS 1-3 KEY INQUIRY QUESTION How can we use the Sun's energy to power a home? NSW 2024 ST3-DDT-01, ST3-DDT-02, ST3-CWT-01	Decoding Data LESSONS 1-2 KEY INQUIRY QUESTION How do digital systems use numbers and binary to represent and communicate data? NSW 2024 ST3-DDT-02 Problem Solving and Digital Designs LESSONS 1-5 KEY INQUIRY QUESTION How can we design user-friendly solutions and create algorithms to meet people's needs? NSW 2024 ST3-DDT-01, ST3-DDT-02



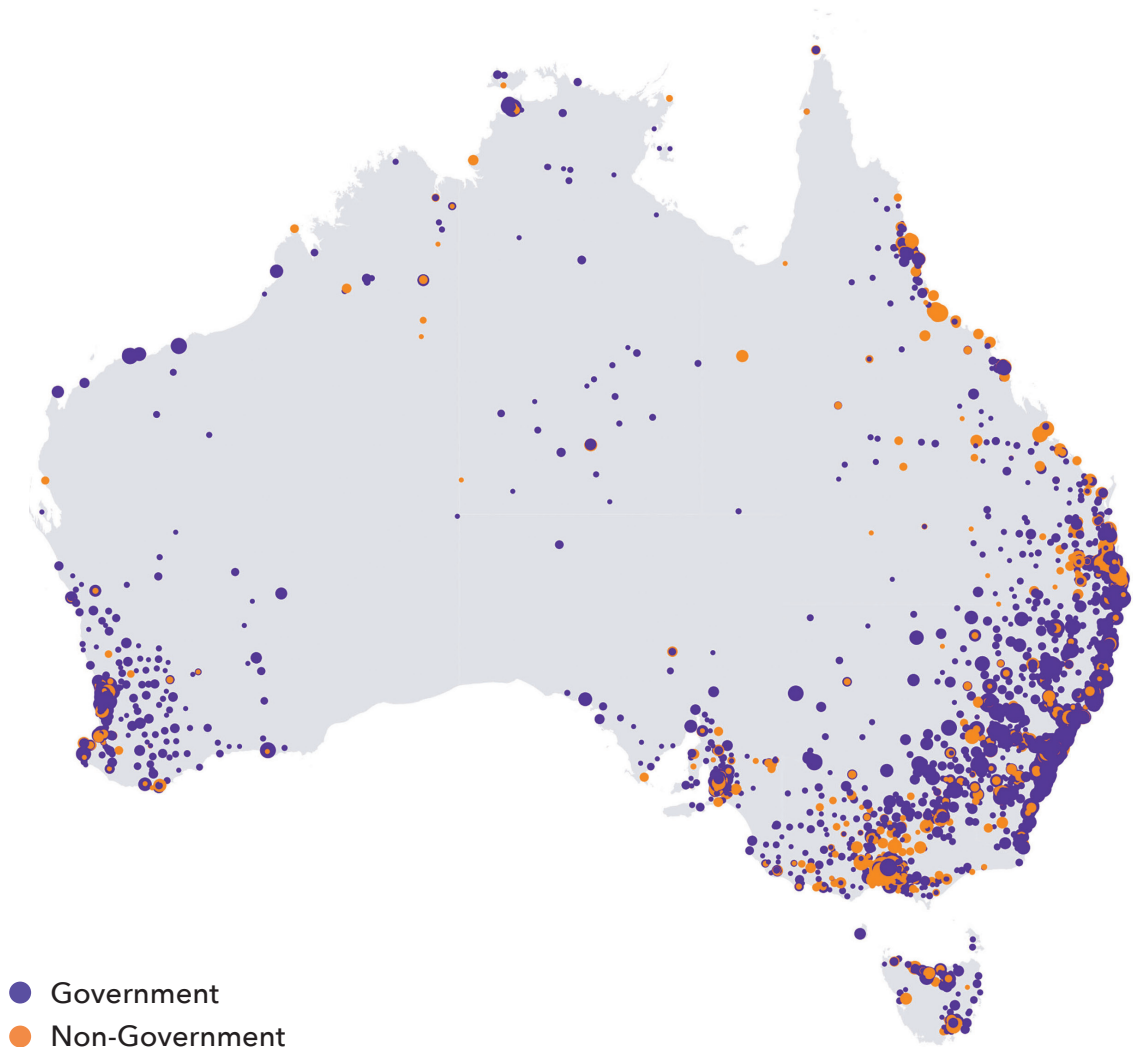
TERM 1	TERM 2	TERM 3	TERM 4
Knowledge of our world and beyond inspires sustainable solutions			
Changing Environments and Ecosystems LESSONS 1-4 KEY INQUIRY QUESTION In what ways do plants, animals and sustainable practices influence the health and balance of environments? NSW 2024 ST3-SCI-01, ST3-DAT-01, ST3-CWT-01	Exploring Beyond Our Solar System LESSONS 1-4 KEY INQUIRY QUESTION How does exploring beyond our solar system expand our understanding of the universe and our place within it? NSW 2024 ST3-SCI-01, ST3-CWT-01	Electrical Circuits LESSONS 1-3 KEY INQUIRY QUESTION How does electricity travel through circuits and materials to power devices safely in everyday life? NSW 2024 ST3-SCI-01, ST3-PQU-01, ST3-DAT-01, ST3-CWT-01	Earth's Climate LESSONS 1-4 KEY INQUIRY QUESTION How do we use technology to understand weather and climate, and what impacts do natural events and human activities have on them? NSW 2024 ST3-SCI-01, ST3-PQU-01, ST3-DAT-01, ST3-CWT-01
Design and digital technologies engineer sustainable solutions			
COMING SOON Managed Environments: Growing Smart LESSONS 1-6 KEY INQUIRY QUESTION How and why are food and fibre produced in managed environments? NSW 2024 ST3-DDT-01, ST3-DDT-02, ST3-CWT-01	Digital Systems and Networks LESSONS 1-3 KEY INQUIRY QUESTION How do the parts of digital systems work together and connect to share data? NSW 2024 ST3-DDT-02	COMING SOON Smart Food Choices LESSONS 1-6 KEY INQUIRY QUESTION How can we select and prepare healthy meals? NSW 2024 ST3-DDT-01, ST3-DDT-02, ST3-CWT-01	Designing Digital Systems LESSONS 1-2 KEY INQUIRY QUESTION How important is design in digital systems? NSW 2024 ST3-DDT-02, ST3-DDT-01

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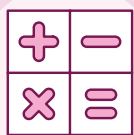
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